

PREPARATION OF SUBSTITUTED ALKALI METAL PIPERIDINE-4-CARBOXYLATES;  
HYDROLYSIS OF 1,3,8,-TRIAZASPIRO 4.5!DECANE-2,4-DIONES, CHEMICAL  
INTERMEDIATES FOR ORPNUM TYPE ANALGESICS

Document Type: UTILITY

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Patent:	US 5039804	19910813	US 89450091	19891213
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(Cited in 002 later patents)

Priority Applic:			US 89450091	19891213
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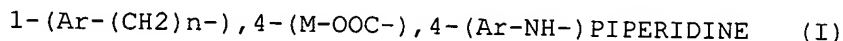
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Abstract:

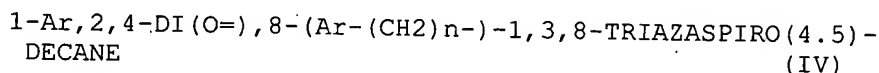
A method of preparing certain substituted alkali metal 4carboxy-piperidine salts (I) by alkaline hydrolysis of certain novel substituted 1,3,8-triazaspiro(4.5)decane-2, 4-diones (IV) which in turn are obtained from certain novel substituted chlorosulphonylamido piperidines (III).

Exemplary Claim:

1. The method of preparing a substituted alkali metal piperidine-4-carboxylate of the following formula:

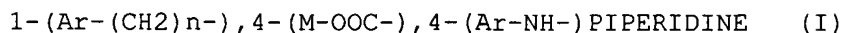


wherein each Ar is phenyl, halophenyl, loweralkylphenyl, loweralkoxyphenyl or trifluoromethylphenyl, M is alkali metal and n is the integer 1 or 2, which comprises hydrolyzing a substituted 1,3,8-triazaspiro(4.5)decane-2, 4-dione of the following formula:

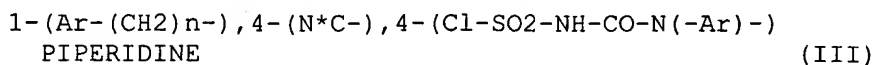


with high molar strong base having an alkali metal cationic moiety in a sealed vessel at elevated temperature to yield said substituted alkali metal piperidine-4-carboxylate.

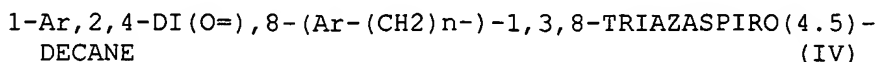
4. The method for preparing a substituted alkali metal piperidine-4-carboxylate of the following formula (I):



wherein each Ar is phenyl, halophenyl, loweralkylphenyl, loweralkoxyphenyl or trifluoromethylphenyl, M is alkali metal and n is the integer 1 or 2 which comprises: (a) treating a substituted chlorosulphonylamido piperidine of the following formula (III):



with aqueous acid solution at elevated temperature, followed by cooling and adjustment of the pH with base, to yield the substituted 1,3,8-triaz-aspiro(4,5)decane-2,4-dione of the following formula (IV):



(b) and hydrolyzing (IV) with high molar strong base having an alkali metal cationic moiety in a sealed vessel at elevated temperature to yield the substituted alkali metal piperidine-4carboxylate of formula (I).

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